

PARTIAL ELEVATION OF INSIDE FACE OF RAILING

TYPICAL TREATMENT OF RAILING ALONG BRIDGE

## NOTES:

- 1. On approach end provide Index No. 402 (as shown) or other site specific treatment, see Roadway Plans. For treatment of trailing end see Roadway Plans.
- 2. Actual joint dimension and orientation vary. For Intermediate Deck Joints use the Modified Post Spacing at Intermediate Deck Joints Detail, Index No. 470, Sheet 2, as required.
- 3. Areas where existing structure has been removed shall match adjoining areas and shall be finished flat by grouting or grinding as required. Exposed existing reinforcing steel shall be removed off 1" below existing concrete and grouted over.

CROSS REFERENCES: For Section A-A see Sheet 2. For Traffic Railing Notes and Details see Index No. 470.

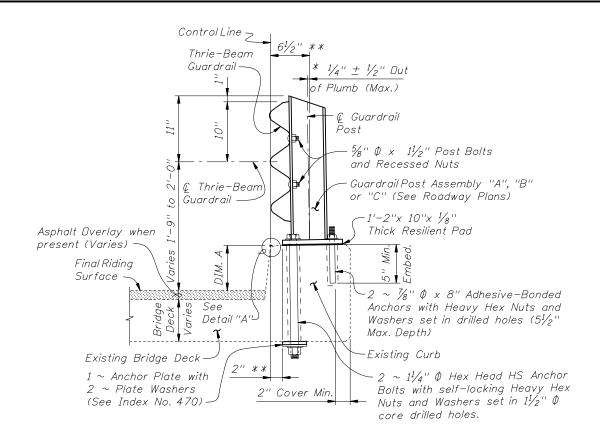


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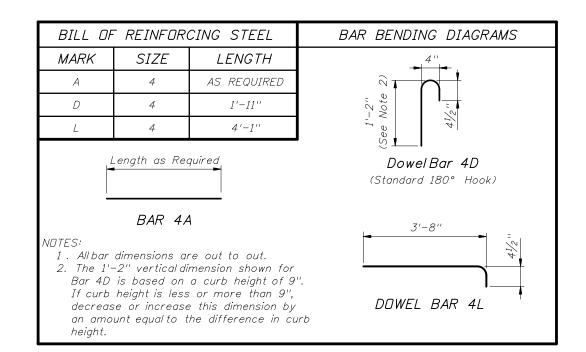
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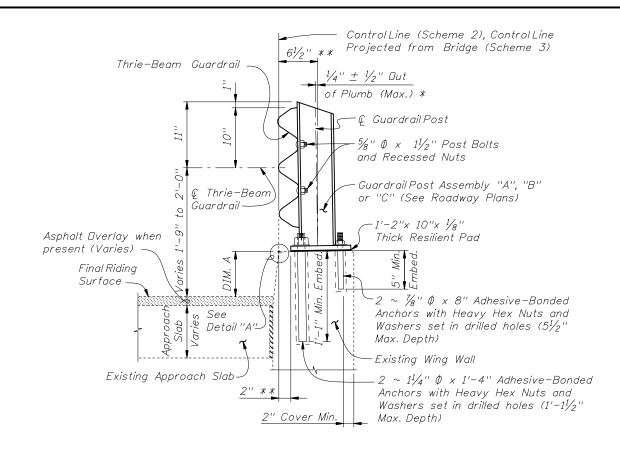
Sheet No.

Index No. 471



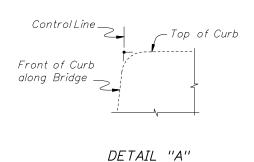
SECTION A-A TYPICAL SECTION THRU RAILING ON BRIDGE DECK

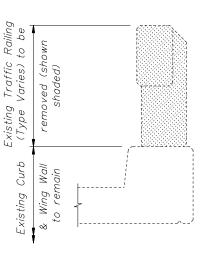




SECTION B-B
TYPICAL SECTION THRU RAILING ALONG APPROACH SLAB
(SCHEME 2 SHOWN, SCHEME 3 SIMILAR)

- \*Shim with washers around Anchors as required to maintain tolerance.
- \*\*
  Offset may vary ± 1" for Adhesive-Bonded Anchors
  to clear existing curb reinforcing and provide
  minimum edge clearance. Offset shall be consistent
  along length of bridge.





TYPICAL SECTION THRU EXISTING TRAFFIC RAILING SHOWING LIMITS OF REMOVAL (BRIDGE DECK SHOWN, WING WALL SIMILAR)

## CROSS REFERENCES:

For location of Section A-A see Sheets 1, 3 & 4. For location of Section B-B see Sheets 3 & 4. For application of Dim. A see Post Dimension Table on Index 470, Sheet 3.



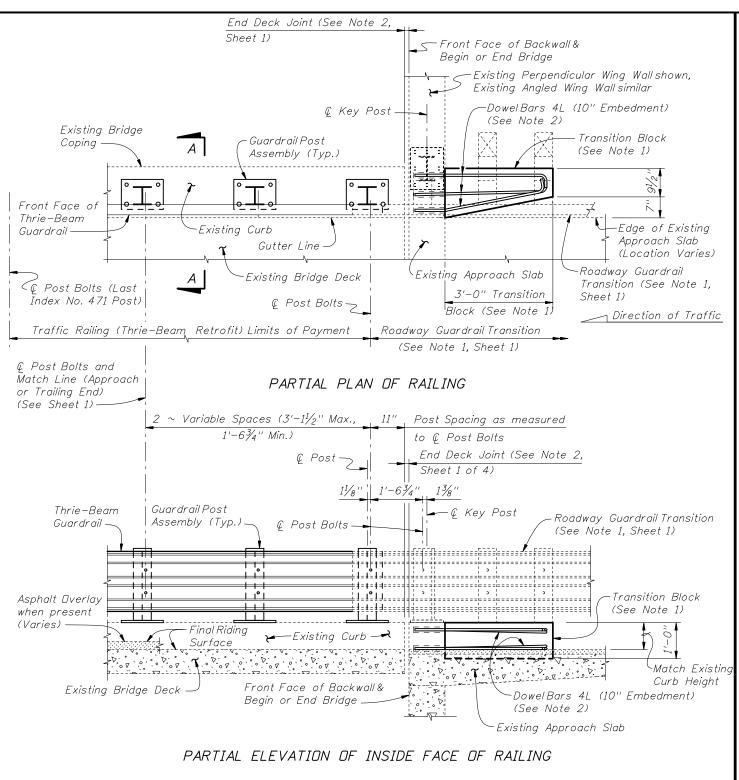
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TRAFFIC RAILING - (THRIE-BEAM RETROFIT)
NARROW CURB

1ndex No.

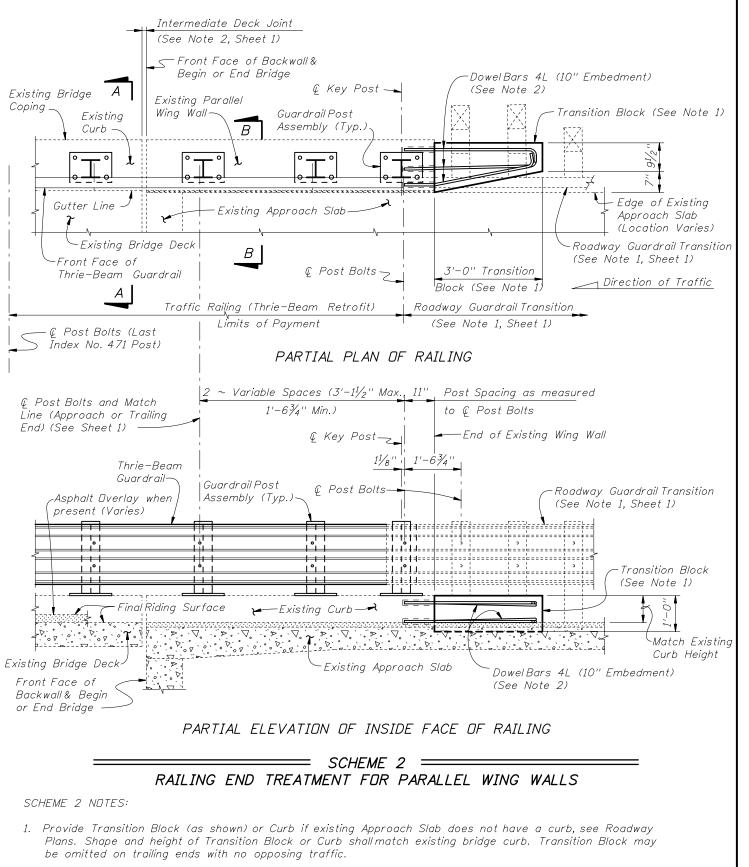
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## RAILING END TREATMENT FOR PERPENDICULAR OR ANGLED WING WALLS

SCHEME 1 NOTES:

- 1. Provide Transition Block (as shown) or Curb if existing Approach Slab does not have a curb, see Roadway Plans. Shape and height of Transition Block or Curb shallmatch existing bridge curb. Transition Block may be omitted on trailing ends with no opposing traffic.
- 2. Field bend Dowel Bars 4L within Transition Block as required to maintain 2" top and side clearance and 3" bottom clearance.



2. Field bend Dowel Bars 4L within Transition Block as required to maintain 2" top and side clearance and 3" bottom clearance.

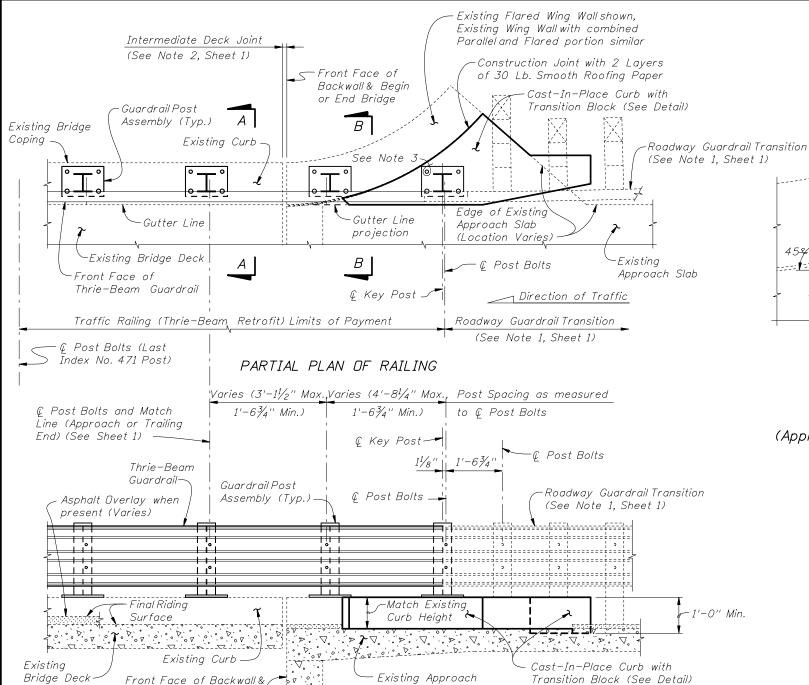


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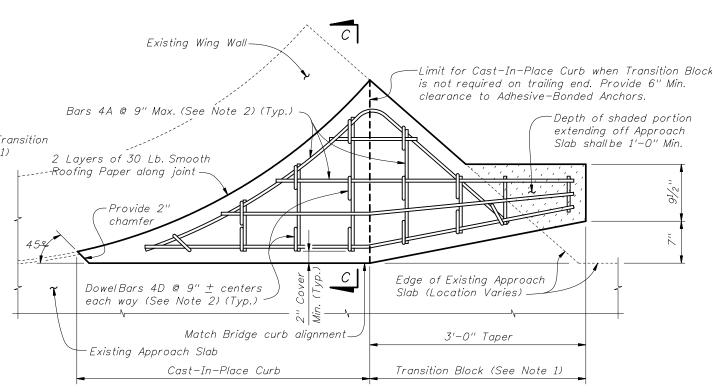
PARTIAL ELEVATION OF INSIDE FACE OF RAILING

## RAILING END TREATMENT FOR FLARED WING WALLS

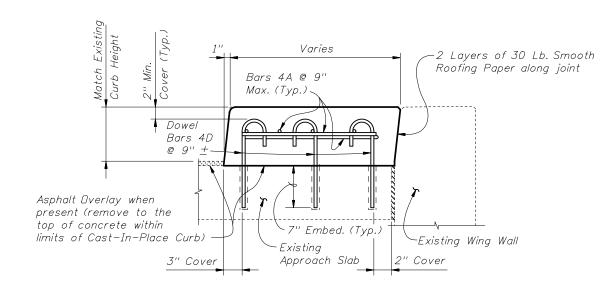
SCHEME 3 NOTES:

Begin or End Bridge —

- 1. Provide Cast-In-Place Curb as shown. Shape and height of Transition Block and Curb shall match existing bridge curb. Transition Block may be omitted on trailing ends with no opposing traffic.
- 2. Field cut and bend Bars 4A and rotate DowelBars 4B within Curb and Transition Block as required to maintain 2" top and side clearance and 3" bottom clearance.
- 3. A single  $\frac{7}{8}$ "  $\phi$  x 8" Adhesive-Bonded Anchor may be omitted as shown when 2" clear cover cannot be provided.



PLAN OF CAST-IN-PLACE CURB & TRANSITION BLOCK DETAIL (Approach End with Transition Block Shown, Trailing End without Transition Block Similar)



SECTION C-C



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NARROW CURB